

BIO 107: GASTROINTESTINAL PHYSIOLOGY

In Workflow

1. BIO Committee Chair (altman@csus.edu)
2. BIO Chair (lindgren@csus.edu)
3. NSM College Committee Chair (mikkel.jensen@csus.edu)
4. NSM Dean (datwyler@csus.edu)
5. Academic Services (catalog@csus.edu)
6. Senate Curriculum Subcommittee Chair (curriculum@csus.edu)
7. Dean of Undergraduate (gardner@csus.edu)
8. Dean of Graduate (cnewsome@skymail.csus.edu)
9. Catalog Editor (catalog@csus.edu)
10. Registrar's Office (k.mcfarland@csus.edu)
11. PeopleSoft (PeopleSoft@csus.edu)

Approval Path

1. Fri, 13 Oct 2023 22:35:39 GMT
Susanne Lindgren (lindgren): Rollback to Initiator
2. Wed, 28 Feb 2024 20:39:51 GMT
Robin Altman (altman): Rollback to Initiator
3. Mon, 25 Mar 2024 23:21:22 GMT
Robin Altman (altman): Approved for BIO Committee Chair
4. Mon, 15 Apr 2024 22:09:03 GMT
Susanne Lindgren (lindgren): Approved for BIO Chair
5. Wed, 17 Apr 2024 22:29:06 GMT
Mikkel Jensen (mikkel.jensen): Rollback to Initiator
6. Thu, 18 Apr 2024 22:34:01 GMT
Robin Altman (altman): Rollback to Initiator
7. Sat, 20 Apr 2024 13:25:20 GMT
Robin Altman (altman): Approved for BIO Committee Chair
8. Sat, 20 Apr 2024 15:26:00 GMT
Susanne Lindgren (lindgren): Approved for BIO Chair
9. Wed, 01 May 2024 22:28:13 GMT
Mikkel Jensen (mikkel.jensen): Approved for NSM College Committee Chair
10. Fri, 10 May 2024 16:51:49 GMT
Shannon Datwyler (datwyler): Approved for NSM Dean

New Course Proposal

Date Submitted: Fri, 19 Apr 2024 01:32:06 GMT

Viewing: BIO 107 : Gastrointestinal Physiology

Last edit: Fri, 19 Apr 2024 01:32:05 GMT

Changes proposed by: Christina Strandgaard (102032630)

Contact(s):

Name (First Last)	Email	Phone 999-999-9999
Christina Strandgaard / Jennifer Lundmark	cstrand@csus.edu	5308485870

Catalog Title:

Gastrointestinal Physiology

Class Schedule Title:

Gastrointestinal Physiology

Academic Group: (College)

NSM - Natural Sciences & Mathematics

Academic Organization: (Department)

Biological Sciences

Will this course be offered through the College of Continuing Education (CCE)?

No

Catalog Year Effective:

Spring 2025 (2025/2026 Catalog)

Subject Area: (prefix)

BIO - Biological Sciences

Catalog Number: (course number)

107

Course ID: (For administrative use only.)

TBD

Units:

3

Is the only purpose of this change to update the term typically offered or the enforcement of existing requisites at registration?

No

In what term(s) will this course typically be offered?

Spring term only

Does this course require a room for its final exam?

Yes, final exam requires a room

Does this course replace an existing experimental course?

No

This course complies with the credit hour policy:

Yes

Justification for course proposal:

The importance of the digestive system in health and disease is clear. Traditionally, students are briefly introduced to the digestive system through their introductory physiology courses. Bio 107 would serve as a detailed introduction to the gastrointestinal tract and the accessory structures. This course would serve as an upper division Elective List 1 class for students majoring (any concentration) and minoring in Biological Sciences and other majors related to Health Science and Kinesiology. The limited pre-requisite courses will make Bio 107 accessible to more students. This Spring only class will serve as the equivalent of the Fall only Bio 104 (Physiology of Human Reproduction) course. Bio 104 is very popular with students from numerous programs, who require UD Units for graduation. The goal is to have Bio 107 serve a similar function.

Course Description: (Not to exceed 90 words and language should conform to catalog copy.)

Bio 107. Gastrointestinal Physiology. This course will cover the anatomy and physiology of the digestive tract, with special emphasis on regulation of digestive functions, the role of the liver, pancreas and gallbladder in digestion and absorption, gut microbes and metabolism. Various gastrointestinal disorders will serve as the model for case studies and problem-solving activities.

Are one or more field trips required with this course?

No

Fee Course?

No

Is this course designated as Service Learning?

No

Is this course designated as Curricular Community Engaged Learning?

No

Does this course require safety training?

No

Does this course require personal protective equipment (PPE)?

No

Does this course have prerequisites?

Yes

Prerequisite:

Bio 1 or Bio 2 or Bio 10 or Bio 26

Prerequisites Enforced at Registration?

Yes

Does this course have corequisites?

No

Graded:

Letter

Approval required for enrollment?

No Approval Required

Course Component(s) and Classification(s):

Lecture

Lecture Classification

CS#01 - Large Lecture (K-factor=1 WTU per unit)

Lecture Units

3

Is this a paired course?

No

Is this course crosslisted?

No

Can this course be repeated for credit?

No

Can the course be taken for credit more than once during the same term?

No

Description of the Expected Learning Outcomes and Assessment Strategies:

List the Expected Learning Outcomes and their accompanying Assessment Strategies (e.g., portfolios, examinations, performances, pre-and post-tests, conferences with students, student papers). Click the plus sign to add a new row.

	Expected Learning Outcome	Assessment Strategies
1	Students will be able to identify and describe the primary and accessory digestive system structures, and how they impact function.	In-class case studies and group problems. Homework and poster project.
2	Students will be able to explain the primary digestive processes and where they occur along the digestive tract.	In-class case studies, and group problems.
3	Students will be able to predict how hormones regulate food intake.	Group problems and case studies.
4	Students will be able to identify the regulatory roles of the nervous and endocrine systems with regard to digestive activities.	In-class group problems and case studies.
5	Students will be able to compare and contrast catabolic and anabolic pathways of metabolism.	In-class exams, case studies, and group problems.
6	Students will be able to explain the details of nutrient and fluid absorption.	In-class exams, case studies and group problems.
7	Students will be able to assess the role of gut microbes in overall digestive health.	Case studies, and group problems.

8	Students will be able to interpret the clinical implications of digestive system pathophysiology for overall health.	In-class exams, case studies, and group problems.
---	--	---

Attach a list of the required/recommended course readings and activities:

BIOLOGY 107.docx

For whom is this course being developed?

Majors in the Dept
Majors of other Depts
Minors in the Dept

Is this course required in a degree program (major, minor, graduate degree, certificate?)

No

Does the proposed change or addition cause a significant increase in the use of College or University resources (lab room, computer)?

No

Will there be any departments affected by this proposed course?

No

I/we as the author(s) of this course proposal agree to provide a new or updated accessibility checklist to the Dean's office prior to the semester when this course is taught utilizing the changes proposed here.

I/we agree

University Learning Goals

Undergraduate Learning Goals:

Competence in the disciplines

Is this course required as part of a teaching credential program, a single subject, or multiple subject waiver program (e.g., Liberal Studies, Biology) or other school personnel preparation program (e.g., School of Nursing)?

No

GE Course and GE Goal(s)

Is this a General Education (GE) course or is it being considered for GE?

No

Reviewer Comments:

Susanne Lindgren (lindgren) (Fri, 13 Oct 2023 22:35:39 GMT): Rollback: Rolling back at author's request for edits

Robin Altman (altman) (Wed, 28 Feb 2024 20:39:51 GMT): Rollback: Rolled back to update course number, following conversation with submitter.

Mikkel Jensen (mikkel.jensen) (Wed, 17 Apr 2024 22:29:07 GMT): Rollback: Prerequisites: Reword to "Bio 1 or Bio 2 or Bio 10 or Bio 26" to avoid confusion in data entry. Assessment strategies are all the same for all LOs; it would be good to have more differentiated assessment strategies for some of the LOs if not all assessment strategies don't apply to all LOs. Syllabus should be fixed on the following points: - Prerequisites don't match the Form A prerequisites - Term offered doesn't match the Form A - Assessment strategies in Form A doesn't match grading outlined in syllabus

Robin Altman (altman) (Thu, 18 Apr 2024 22:34:01 GMT): Rollback: Per conversation with Dr. Strandgaard, rolling back for syllabus revision.

Key: 14752